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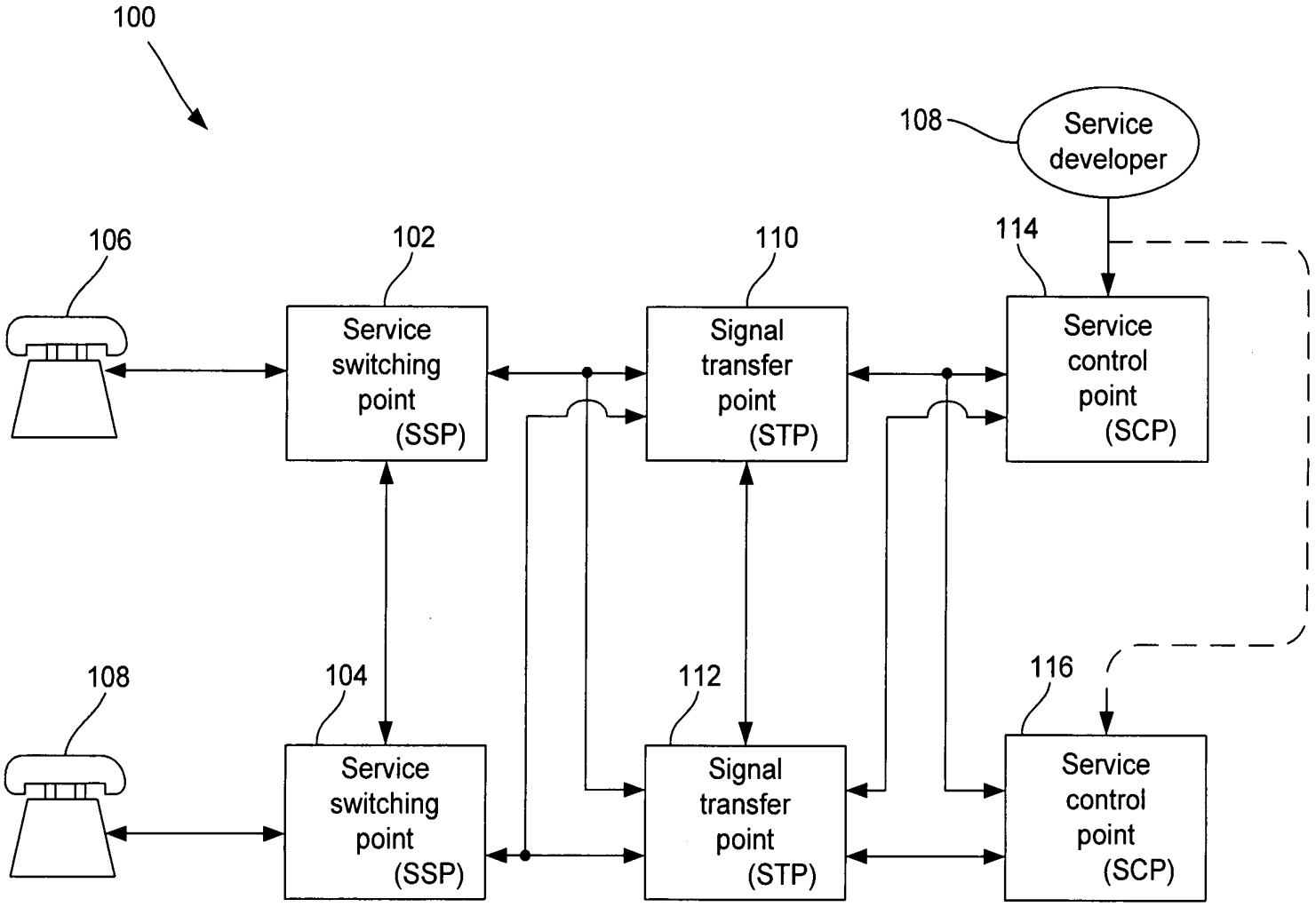

FIG. 1
(Background Art)

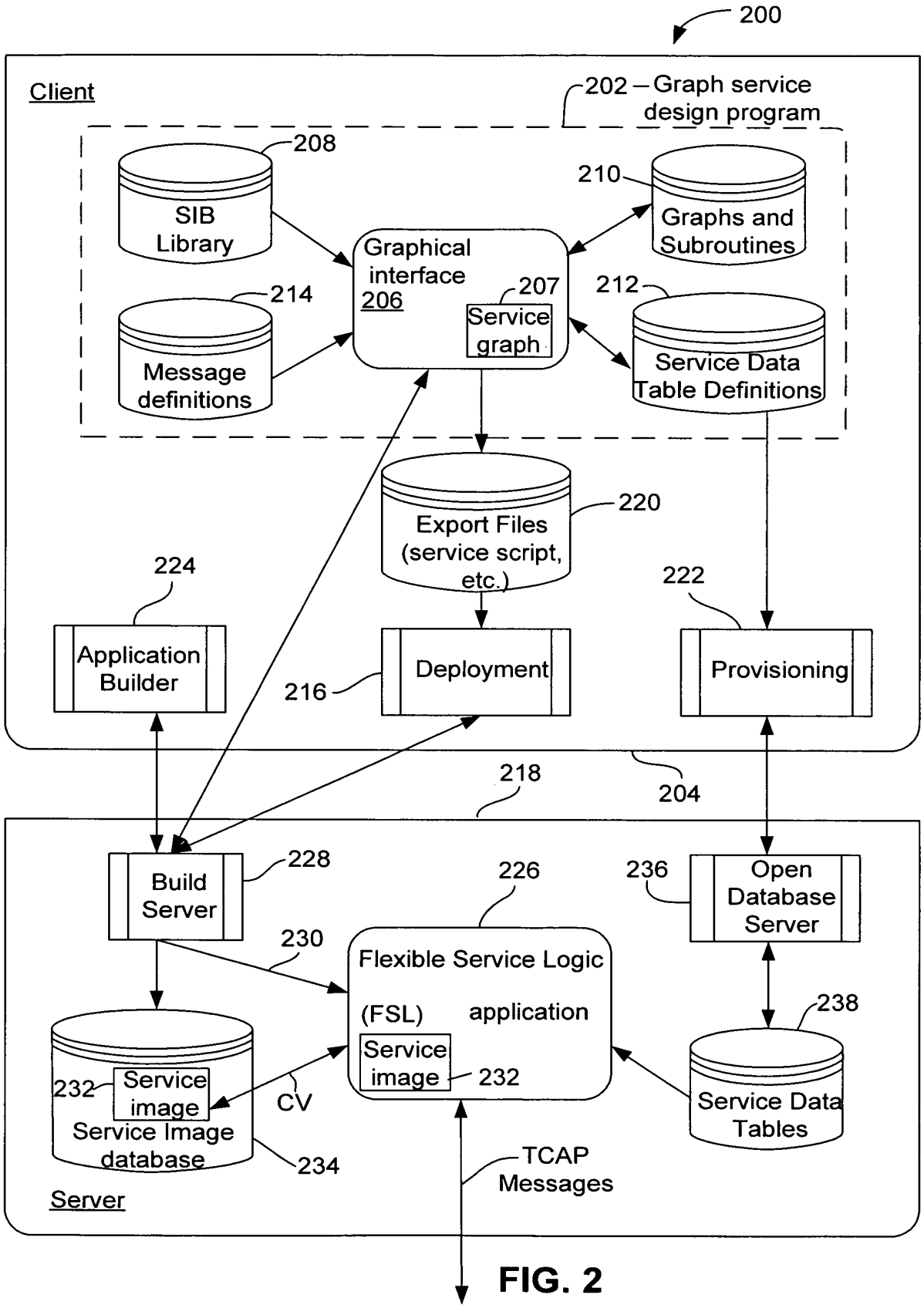
200
Client
202 – Graph service design program
208
SIB Library
210
Graphs and Subroutines
Graphical interface 206
207
Service graph
214
Message definitions
212
Service Data Table Definitions
220
Export Files (service script, etc.)
224
Application Builder
222
216
Deployment
Provisioning
218
204
228
Build Server
226
236
Open Database Server
230
Flexible Service Logic
(FSL) application
238
Service image
232
232
Service image
Service Image database
CV
234
Service Data Tables
Server
TCAP Messages

FIG. 2

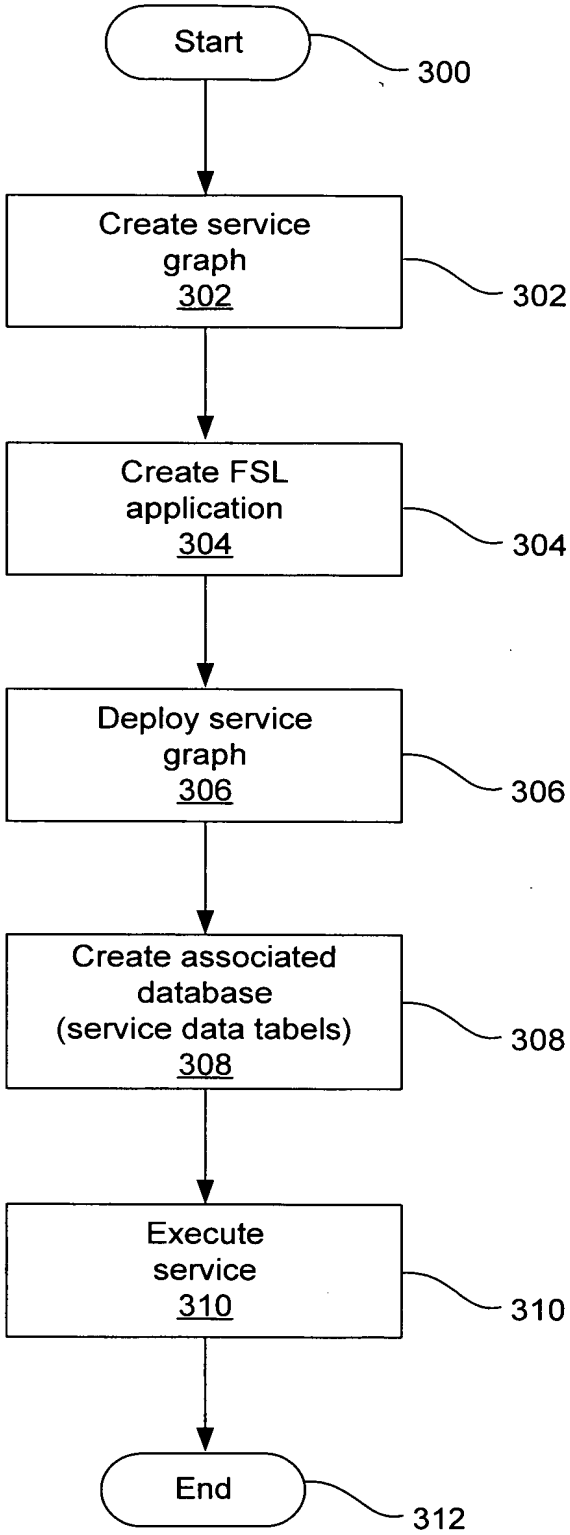
Start
300
Create service graph 302
302
Create FSL application 304
304
Deploy service graph 306
306
Create associated database (service data tabels) 308
308
Execute service 310
310
End
312

FIG. 3

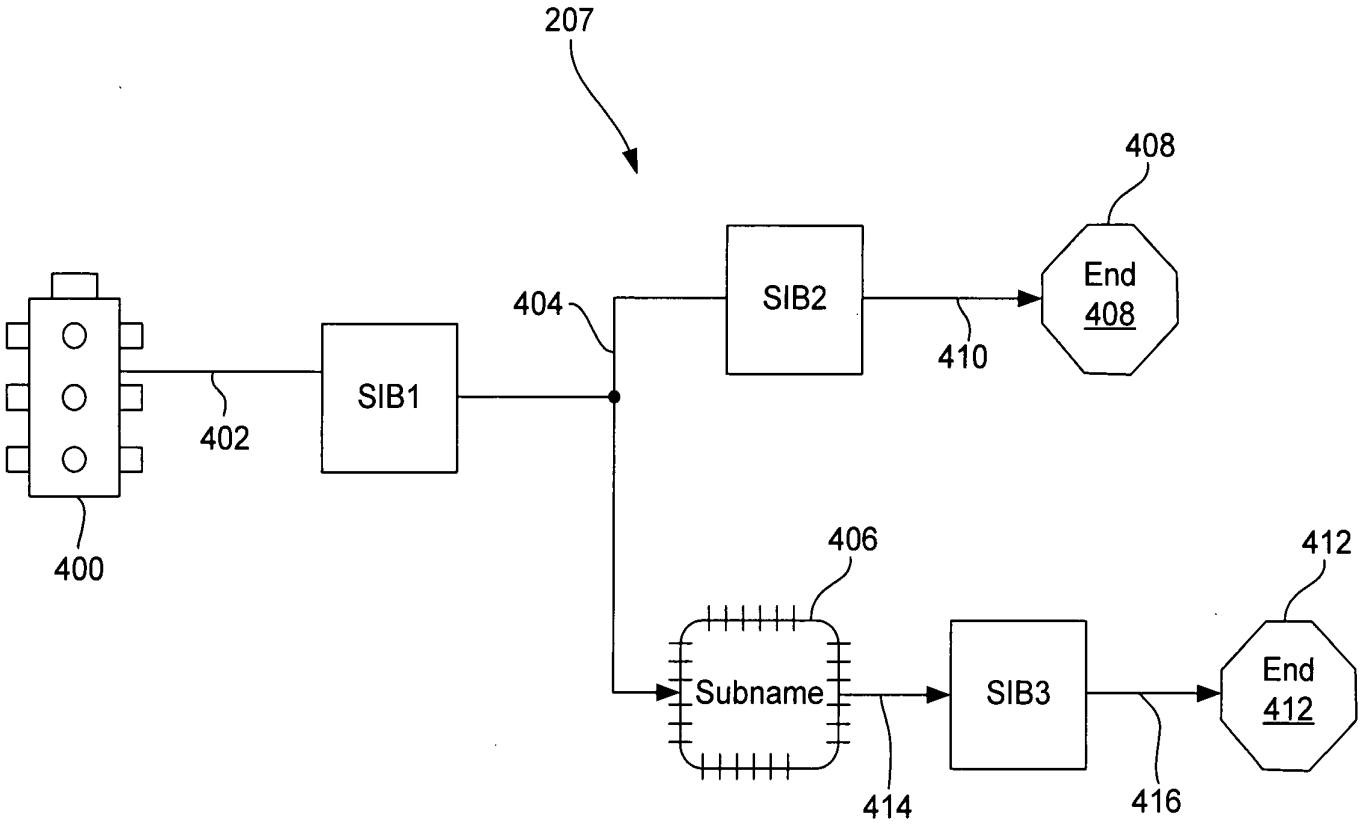
207
408
End
408
SIB2
404
410
SIB1
402
400
406
412
Subname
SIB3
End
412
414
416

FIG. 4

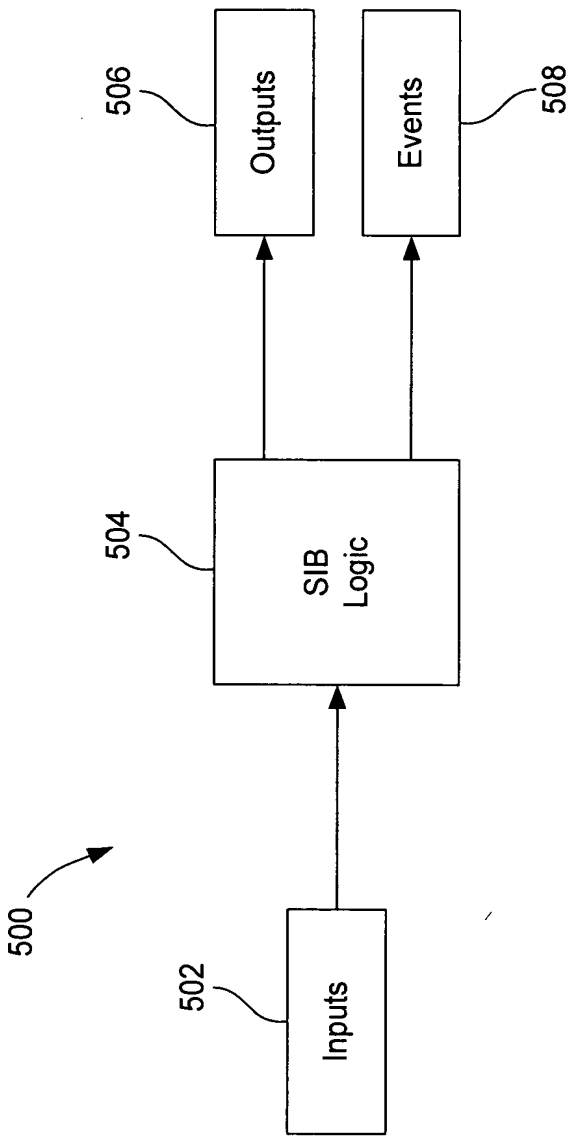

FIG. 5

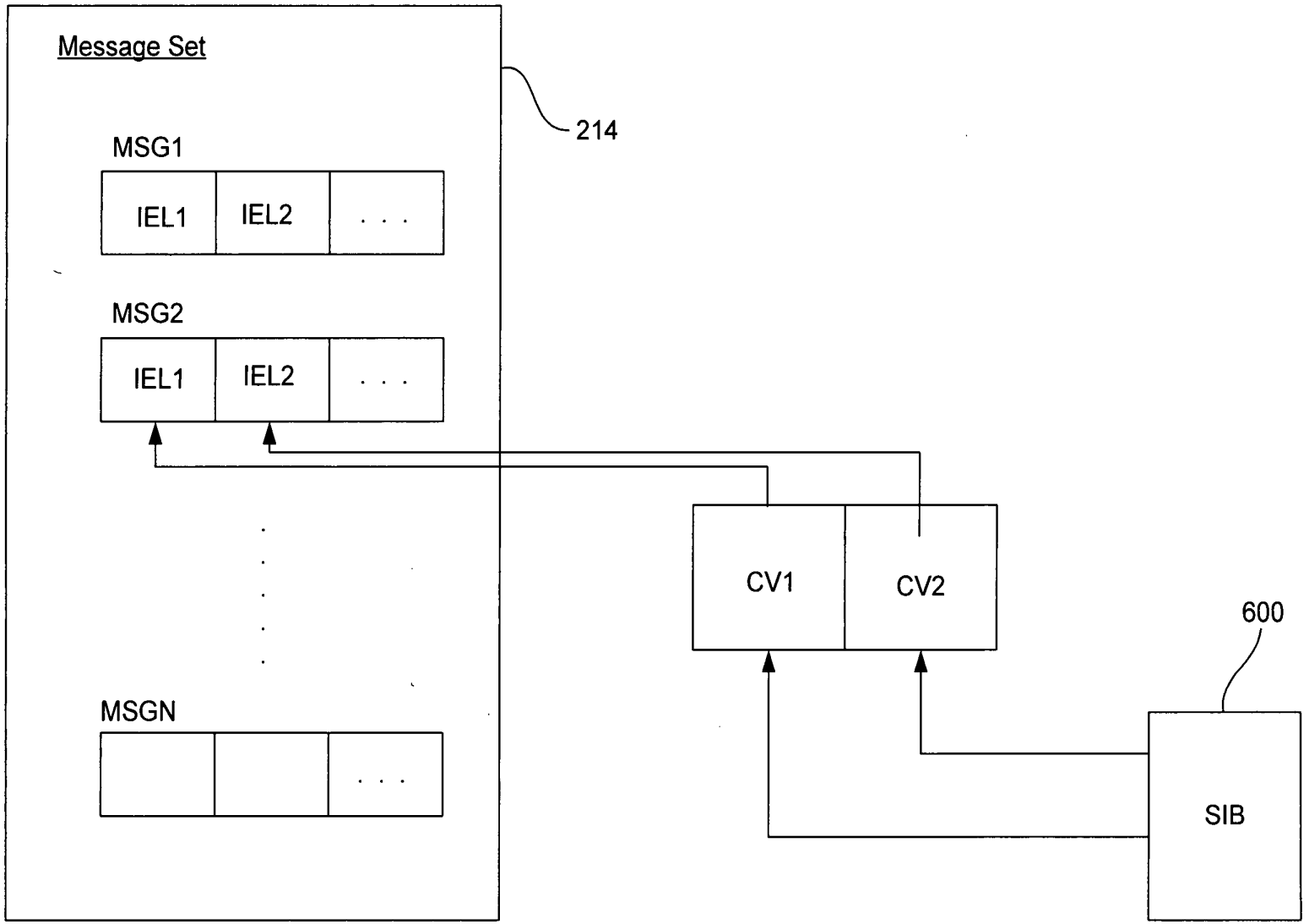
Message Set
214
MSG1
IEL1
IEL2
. . .
MSG2
IEL1
IEL2
. . .
MSGN
. . .
CV1
CV2
600
SIB

FIG. 6

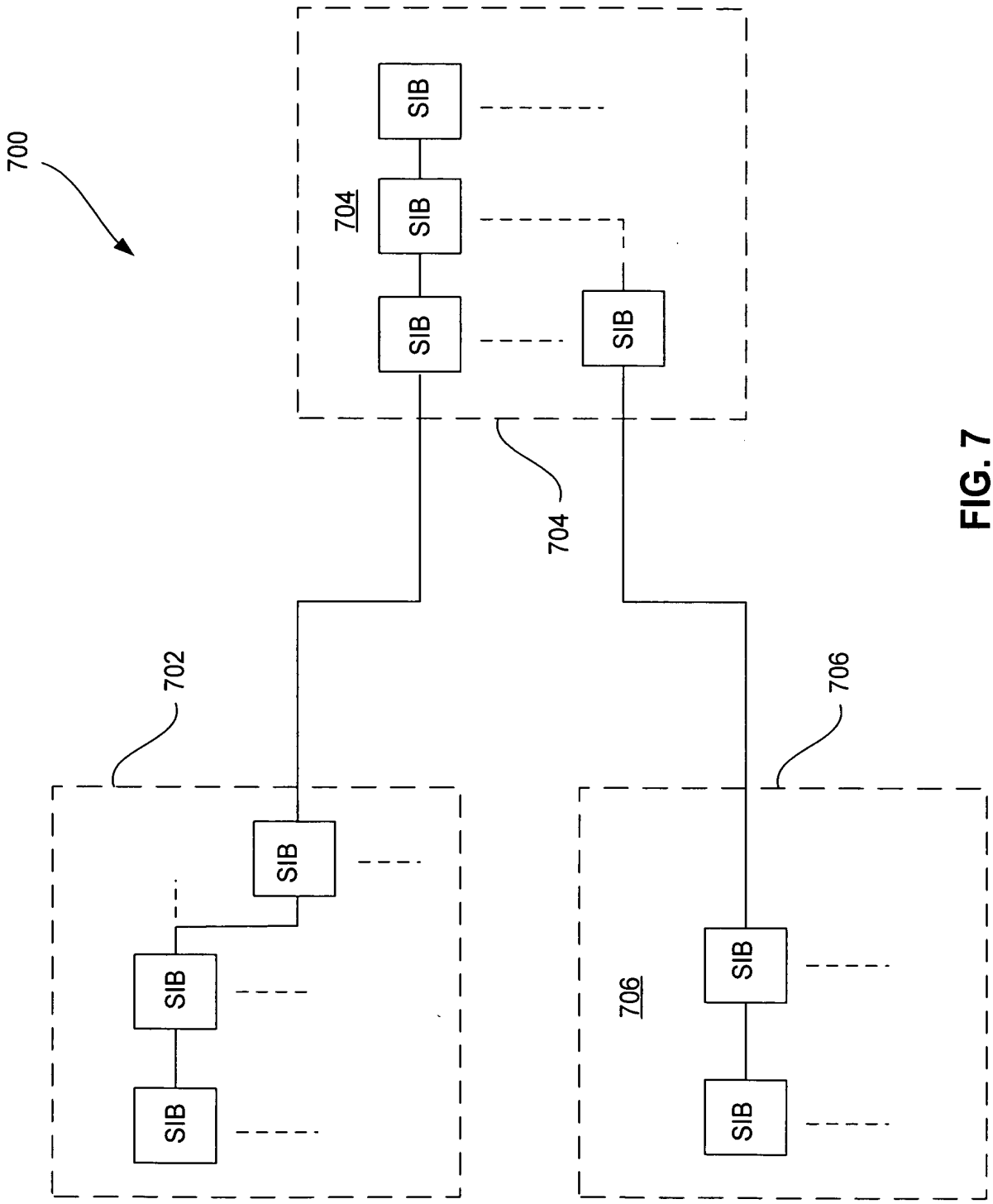

FIG. 7

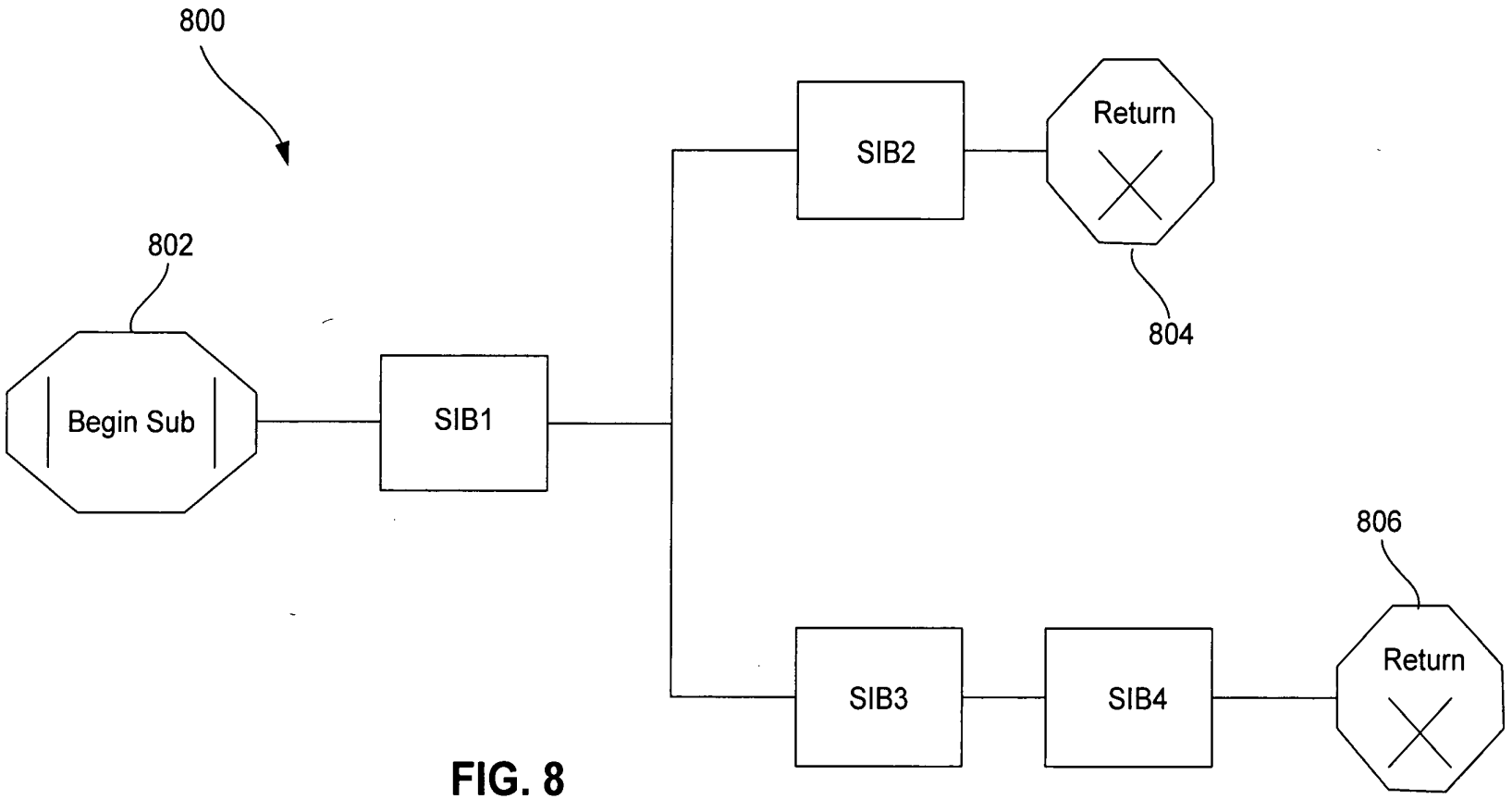

FIG. 8

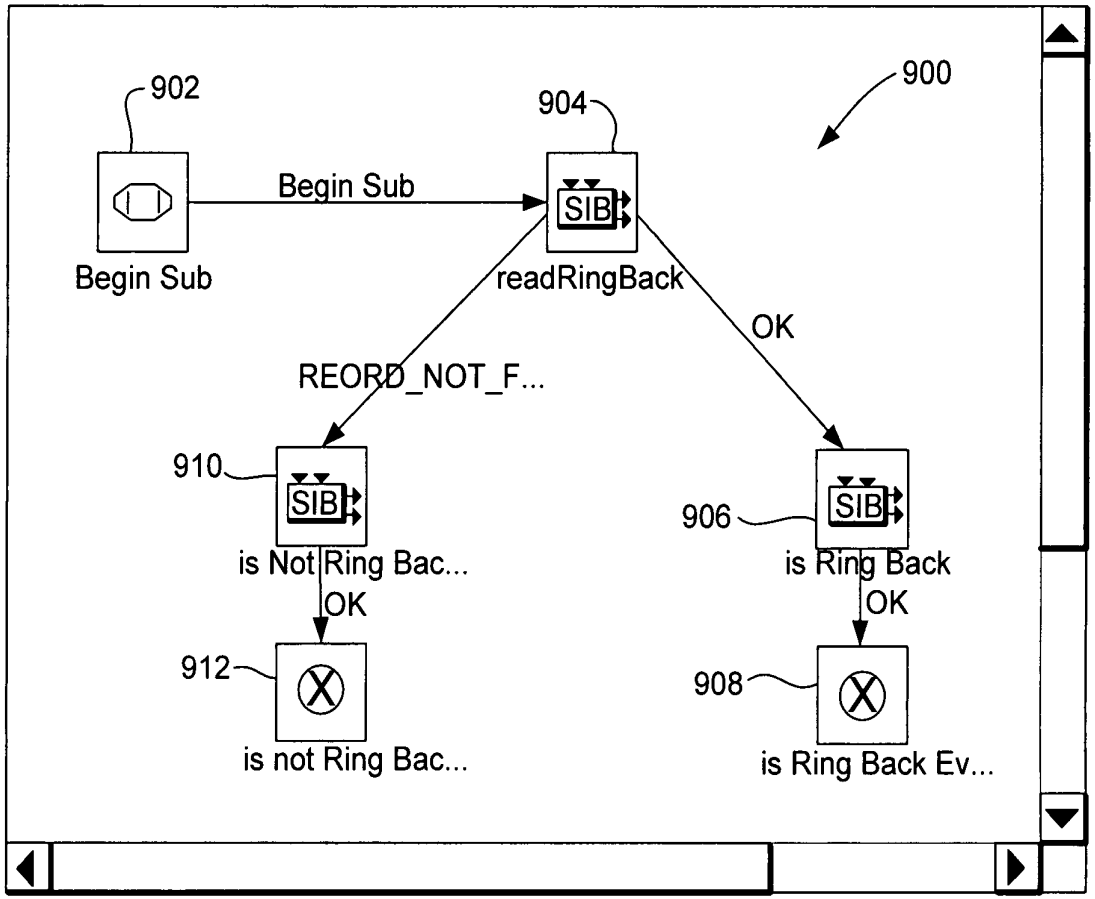
900
902
904
Begin Sub
Begin Sub
SIB
readRingBack
OK
REORD_NOT_F...
910
SIB
is Not Ring Bac...
OK
912
is not Ring Bac...
906
SIB
is Ring Back
OK
908
is Ring Back Ev...

FIG. 9

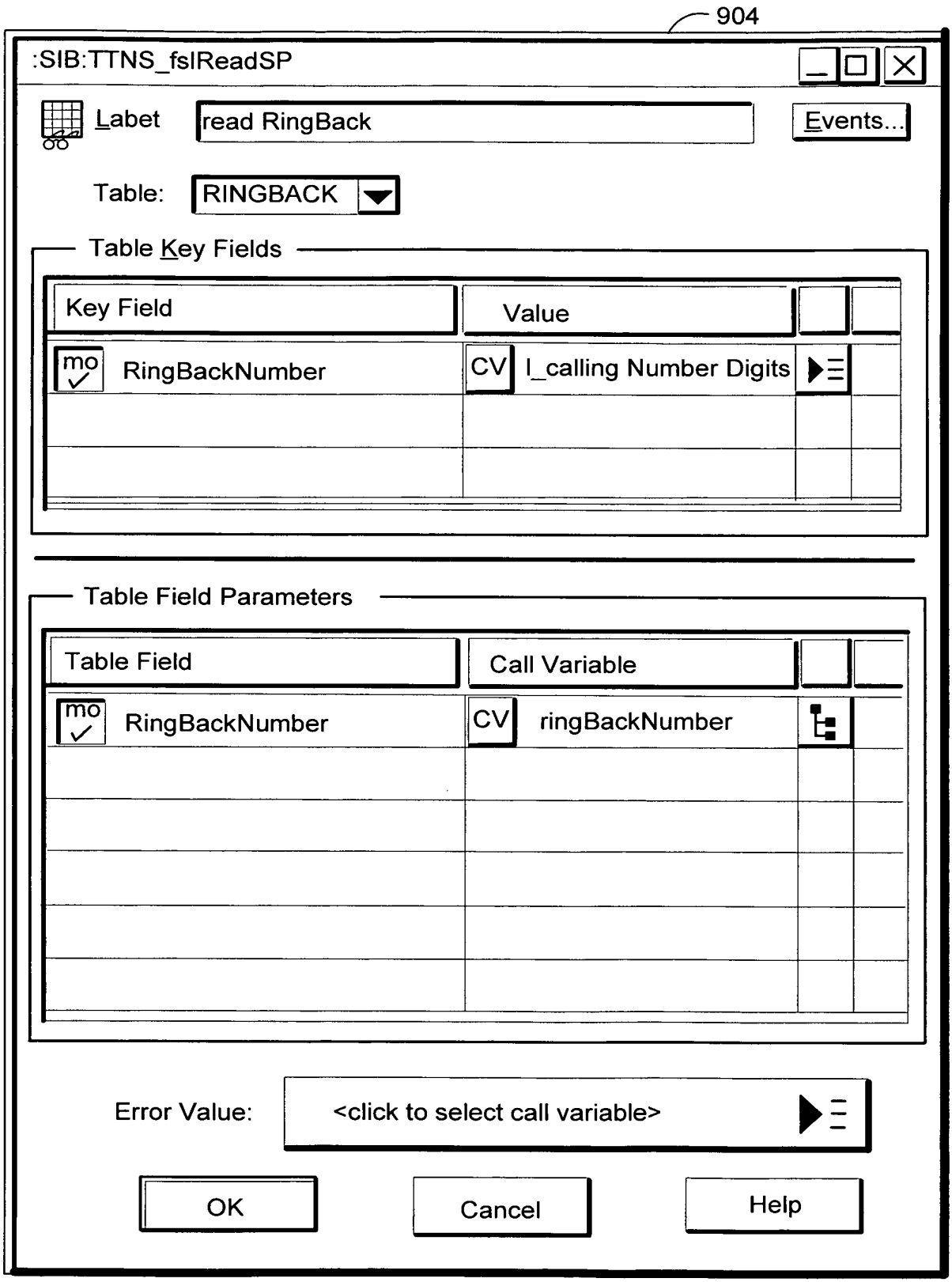
904
:SIB:TTNS_fslReadSP
Label
read RingBack
Events...
Table:
RINGBACK
Table Key Fields
Key Field
Value
mo
RingBackNumber
CV
I_calling Number Digits
Table Field Parameters
Table Field
Call Variable
mo
RingBackNumber
CV
ringBackNumber
Error Value:
<click to select call variable>
OK
Cancel
Help

FIG. 10

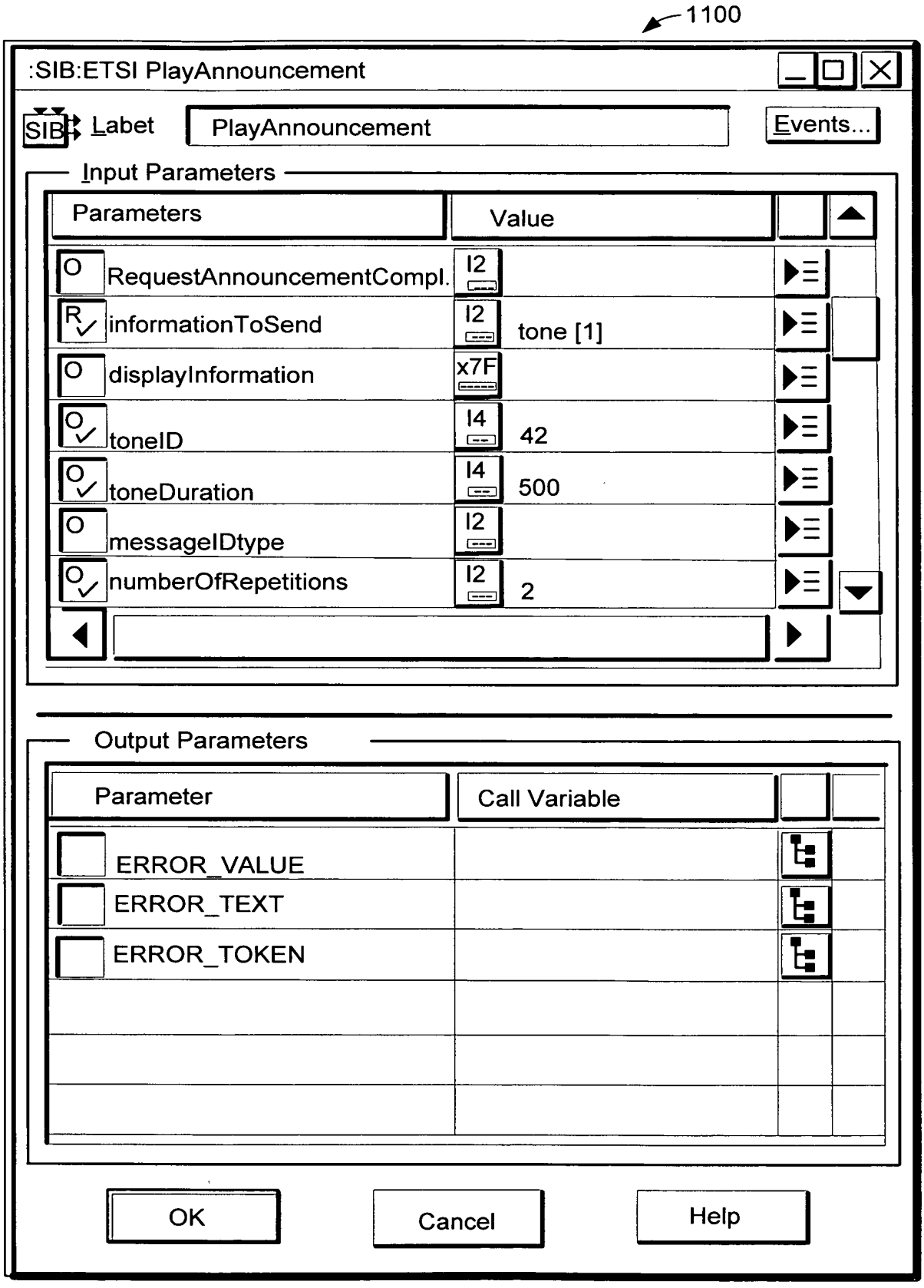
1100
:SIB:ETSI PlayAnnouncement
SIB
Label
PlayAnnouncement
Events...
Input Parameters
Parameters
Value
O RequestAnnouncementCompl. I2
R informationToSend I2 tone [1]
O displayInformation x7F
O toneID I4 42
O toneDuration I4 500
O messageIDtype I2
O numberOfRepetitions I2 2
Output Parameters
Parameter
Call Variable
ERROR_VALUE
ERROR_TEXT
ERROR_TOKEN
OK
Cancel
Help

FIG. 11